



The ILLINOIS ENGINEER

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS
INCORPORATED

Affiliated with the National Society of Professional Engineers
CHAMPAIGN, ILLINOIS



VOLUME XXVIII, NO. 9

SUMMER ISSUE

SEPTEMBER, 1952

NEW COMMISSIONER OF PUBLIC WORKS FOR THE CITY OF CHICAGO



VIRGIL E. GUNLOCK
Commissioner of Public Works

Past President Virgil E. Gunlock became Commissioner of Public Works for the City of Chicago on September 1st. The announcement of the reorganization of the engineering departments was made by Mayor Kennelly on August 19th.

The Department of Subways and Superhighways which Mr. Gunlock has headed as Commissioner since 1945 became a Bureau of the Department of Public Works. Other changes moved the Bureau of Maps and Plats, architecture and building maintenance, rivers and harbors, parks and recreation, aviation and the division of bridges and viaducts under Mr. Gunlock's supervision. He also has jurisdiction over the consolidated bureau of engineering. Nearly 600 engineers who were working in the various departments will be in the Department of Public Works.

Congratulations and best wishes from the Illinois Society go with Mr. Gunlock in his expanded responsibilities.

PRESIDENT'S MESSAGE

Which is mightier, the pen or the sword? An interesting question, and at the risk of inviting controversy, your President will state without equivocation that one type of pen is far mightier than the sword.

Let us first examine the sword of today. We find a gigantic monster of complex mechanisms: tanks, guns, planes, ships, and so forth—war machines which are the products of countless hours of engineering planning and design. We find a sword which represents a dollar value far in excess of that which the human mind can comprehend—a sword on which we are staking our civilization.

Let us now examine the pen of which I speak. It is a simple and inexpensive gadget of high quality steel—a drafting pen! Outside of the engineering office it becomes a relatively useless object. Its one function is to record graphically the engineering design of any given project.

As we look at our war machine it is obvious that none of it would exist were it not for many hours of engineering design, and without the lowly drafting pen there would be no way of readily expressing engineering thinking. The pen, therefore, becomes all-important, and anything all-important becomes mighty.

In our uneasy, war torn economy of today when engineers and engineering draftsmen are at a premium, we find those who would drain that which remains of our technical resources. The military gobbles our young men without regard to civilian status and pursuit, and many young engineering graduates are now in strictly non-engineering divisions of the armed forces. Where will it stop? The mighty pen must continue its work if we are to continue our productivity, but it takes technically trained manpower to manipulate this pen.

Let us see our political friends at the local, state and national levels, and let us tell them again and again why the pen is mightier than the sword. We can and must demand of our public officials a reasonable program of utilization of young engineering personnel.

A. D. SPICER, *President, I.S.P.E.*

Research is something that if you don't do it until you have to, it's too late.

—Charles F. Kettering

SUBSCRIPTION RATES

\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and its possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c. Published by the Illinois Society of Professional Engineers, Inc., at 631 East Green Street, Champaign, Illinois.

Entered as Second Class Matter April 27, 1949, at the Post Office, Champaign, Illinois.

VOX SECRETARIIP. E. ROBERTS, *Assistant Secretary***Air Pollution**

Capital Chapter's exhaustive study on Air Pollution was presented by James Williams, Chairman of the committee who carried on the study, at the Springfield Exchange Club on Monday, August 18th. That the study has wide general interest is confirmed by the fact that the story was carried on page one in Tuesday Morning's Illinois State Journal. The complete report of the study is not available for distribution at this time but will be shortly.

Author

Your attention is called to the article titled Professional Unity—Unionism, Unification and Ruinism in the August *American Engineer*. The article which is well written and thought-provoking was written by Professor Dan H. Pletta of Virginia Polytechnic Institute. Mr. Pletta received his B.S. and C.E. degrees from the University of Illinois in 1927.

Bargain

In a recent bulletin which goes to Chapter Officers and the Board of Direction, the notification that Chavos No. 877 Drawing Instrument sets are available through the Secretary's office at \$7.50 per set. The set consists of two bow pens, two bow pencils, two dividers, two ruling pens and miscellaneous equipment. Many of these sets sold for \$30.00 each. These new sets are offered as an added service of the Illinois Society. About 40 sets are on hand at \$7.50 but when the present supply is exhausted there will be no more at this price. If you can use a spare set or want a new up to date set, please send a check at once to the Secretary's office in the amount of the number of sets you desire.

Judges

Three engineers of the seven man jury which judged the James F. Lincoln Arc Welding Foundation 1952 competition are members of the Illinois Society. James G. Clark, Chairman of the jury and Thomas C. Shedd are Professors of Civil and Structural Engineering respectively at the University of Illinois. Walter E. Hanson is Bridge Engineer, Division of Highways, State of Illinois.

The jury met in Petoskey, Michigan, August 11-29. The title for this year's competition is "Welded Bridges for Steel Conservation." This combining business with pleasure in Michigan resort country is nice work if you can get it.

New Laboratory

Robert Annis, member of Champaign County Chapter has returned to the Twin Cities after a year in Texas and has opened a laboratory in Champaign for the consultation, research and development of electronics. The company will also consult on any subject related to antennas, amplifiers, communication circuits and variable speed A.C. motors. The best wishes of the Illinois Society go to Mr. Annis in his new laboratory.

Travellers

Secretary and Mrs. Babbitt have returned to Urbana after their three months trip in Europe. As usual "The Professor" took many pictures and at least once he was "detained" temporarily for taking a photo of General Pershing's old Headquarters in Chaumont, France. Ask him to tell you about it.

Editor Oliver

Editor Oliver headed North as soon as Summer School examinations had been graded, to rest and relax in his favorite vacation spot, Sayner, Wisconsin. Any errors of commission or omission are directly chargeable to yours truly, Skeet Roberts, Assistant Secretary.

MESSAGE FROM THE JUNIOR REPRESENTATIVES

JAMES L. MILLS

The Society activities of your state Jr. Representative have been rather limited this summer. With fall rapidly approaching and the press of summer business slowing down more time can now be directed towards planning and carrying out our objectives as previously mentioned in this magazine.

To refresh your memories I'll state briefly our proposed 3 point program. One—Increase E-I-T and Student membership, Two—Increase interest for these new men, Three—Endeavor to take a more active personal part in the Society both on the State and Chapter levels.

I have sent letters of instruction to each chapter Jr. Representative outlining in detail what is expected and how the combined efforts of all of us can produce the desired results and achieve our goal in the membership drive. Please, if you are called upon to help these men give them what time and cooperation you can. It will benefit you and the Society.

I will do my best to visit each chapter before the next annual meeting in March, 1953. I will be more than glad to talk to any of you and do what I can to help with any problems or ideas you may have.

Failures are divided into two classes — those who thought and never did and those who did and never thought.—J. C. Salak.

I hold every man a debtor to his profession;
from the which as men of course do seek to receive countenance and profit, so ought they of duty so endeavor themselves by way of amends to be a help and ornament thereunto.

Sir Francis Bacon

COST OF LIVING INDEX

The correction factor to be applied to the I.S.P.E. Schedule of Minimum Fees and Salaries was 192.4 for July, 1952. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

Schedule of Minimum Fees

N.S.P.E. Interim Report, No. 2, Nov. 1951

The following tables of minimum fees from the Second Interim Report of the N.S.P.E. Salary and Fee Schedule Committee is published in this issue of the *Illinois Engineer* upon instructions given by the 67th Annual Meeting of I.S.P.E., April, 1952. These instructions were the result of a recommendation of the I.S.P.E. Committee on Fees and Salaries.

The following is quoted from that Committee's report.

"The Committee on Fees and Salaries also recommends that the schedule of minimum fees published in the Interim Report of Salaries and Fees Schedule Committee of the National Society of Professional Engineers be printed in the September issue of the *Illinois Engineer*. This schedule should include a note indicating that the fees shown are the average fees reported by the various consulting firms throughout the country and that they correspond exactly with the fees schedule previously adopted by the Illinois Society.

"This Committee feels that although some minor revisions in the 2nd edition of the Fees and Salaries Schedule may be needed, no revision in the I.S.P.E. Fees and Salaries schedules should be made until the work of the N.S.P.E. Committee is completed."

Charges for Complete Projects Exclusive of Full Time Supervision by Size and Difficulty

Cost of Project (in units of \$1000)	For Work of Maximum Diffi- culty Fee in Per Cent	For Work of Average Diffi- culty Fee in Per Cent	For Work of Minimum Diffi- culty Fee in Per Cent
New England			
10.....	11.6	9.4	7.9
50.....	9.8	8.2	6.7
100.....	8.5	7.3	6.0
250.....	8.0	6.7	5.2
500.....	6.8	5.7	4.8
1000.....	6.3	5.3	4.8
5000.....	5.4	4.3	3.9
10000.....	4.8	3.6	3.3
Middle Atlantic			
10.....	9.5	8.3	7.0
50.....	8.3	7.0	6.0
100.....	7.4	6.3	5.6
250.....	6.8	5.9	5.3
500.....	6.1	5.3	4.7
1000.....	5.7	5.0	4.2
5000.....	5.4	4.7	3.9
10000.....	5.0	4.2	3.5
Southeastern			
10.....	9.0	7.0	5.9
50.....	7.7	6.5	5.4
100.....	7.1	6.0	5.1
250.....	6.5	5.5	4.6
500.....	6.1	5.1	4.5
1000.....	5.1	4.4	3.9
5000.....	4.8	3.8	3.7
10000.....	4.6	3.6	3.5

Cost of Project (in units of \$1000)	For Work of Maximum Diffi- culty Fee in Per Cent	For Work of Average Diffi- culty Fee in Per Cent	For Work of Minimum Diffi- culty Fee in Per Cent
Central Area			
10.....	11.4	9.0	7.6
50.....	9.5	7.4	6.7
100.....	8.3	6.6	6.1
250.....	7.3	5.9	5.6
500.....	6.3	5.4	5.3
1000.....	6.3	5.0	4.9
5000.....	5.2	4.6	4.4
10000.....	4.3	4.1	3.8
North Central Area			
10.....	9.3	8.6	7.4
50.....	7.4	7.2	6.3
100.....	7.0	6.5	5.7
250.....	6.2	5.7	5.1
500.....	5.4	5.2	4.9
1000.....	5.0	5.0	4.8
5000.....	4.6	4.4	4.2
10000.....	3.8	3.7	3.2
Southwestern			
10.....	9.1	8.2	7.0
50.....	7.3	6.5	5.7
100.....	6.7	6.0	5.3
250.....	5.9	5.2	4.6
500.....	5.6	4.8	4.3
1000.....	4.7	4.5	4.0
5000.....	4.2	4.0	3.7
10000.....	4.1	4.1	3.7
Western			
10.....	13.3	10.3	8.4
50.....	13.2	9.4	8.2
100.....	10.8	8.4	8.0
250.....	10.3	8.0	7.3
500.....	9.4	7.5	6.7
1000.....	9.0	7.0	6.1
5000.....	6.9	5.7	4.8
10000.....	6.2	5.0	4.1

COMMON THINGS

The things I prize of greatest worth,
Are just the common things of earth:
The rain, the sun, the grass, the trees;
The flowers, the birds, the glorious breeze;
Clouds that pass, the stars that shine,
Mountains, valleys—all are mine!
Rivers broad, and open sea,
Are riches none can take from me.
Oh, God is here on every hand—
Upon the sea, upon the land.
And day by day my thanks I give
That with these common things I live.

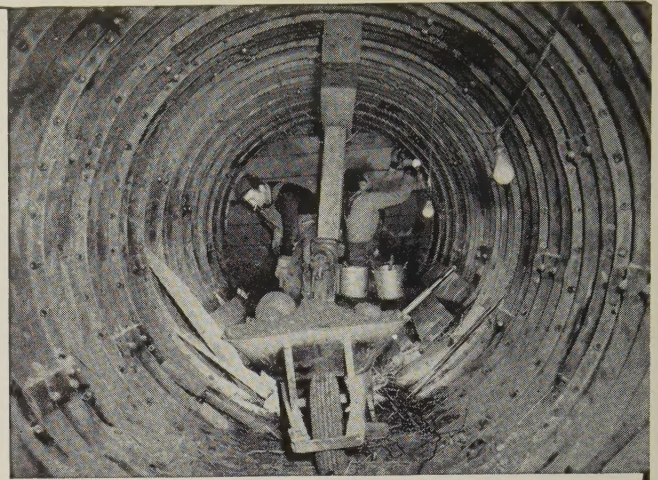
—Leonard G. Nattkemper.

This Tunnel WON'T DISTURB PAVEMENTS OR TEMPER

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440 South Franklin Street, Decatur, Illinois

PHONE 8-3446